

Abstract of the Disclosure

5 A piezoelectric pipetting device housing and methods for
making and using the same is disclosed. A protected capillary
includes a rigid tube and a glass capillary that is bonded to an
interior surface of the rigid tube. The protected capillary
optionally includes a piezoelectric actuating element adjacent a
10 portion of the exterior surface of the glass capillary. The
protected capillary further optionally includes a sensor that is
adjacent a third portion of the exterior surface of the glass
capillary or a temperature regulator. Methods for making and
using the protected capillary are also disclosed.